

1. Record Nr.	UNINA9910346956303321
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Titolo	Sequentieller Versuch zur HiL-unterstützten Validierung hybrider Antriebssysteme mit gekoppelten Antriebseinheiten
Pubbl/distr/stampa	KIT Scientific Publishing, 2018
ISBN	1000078697
Descrizione fisica	1 online resource (XIV, 153 p. p.)
Collana	Karlsruher Schriftenreihe Fahrzeugsystemtechnik / Institut für Fahrzeugsystemtechnik
Soggetti	Technology: general issues
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Diesel-hybrid propulsion systems for railcars are able to reduce fuel consumption and emissions in relation to conventional diesel railcars. To design such a propulsion system requires the use of simulation and experimental methods. A validation procedure is developed, that enables to test the propulsion system in several smaller tests with single powertrains.